

**Amendments to the Claims:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently Amended) ~~An apparatus~~ A user equipment for use in a code division multiple access communication system, the user equipment comprising:

~~an input configured to accept a user identification comprising L bits; and~~

~~an output configured~~ circuitry configured to process a user equipment identification (UE ID) by  $\frac{1}{2}$  rate convolutionally encoding the UE ID to produce a code used by the user equipment for scrambling ~~descrambling~~ a high speed shared control channel (HS-SCCH); wherein the apparatus effectively processes at least the L bits of the user identification by a  $\frac{1}{2}$  rate convolutional code user equipment is configured to receive a wireless signal, the wireless signal providing the user equipment with payload data carried on a high speed physical downlink shared channel (HS-PDSCH), the HS-PDSCH being associated with the HS-SCCH.

2. (Currently Amended) ~~The apparatus~~ user equipment of claim 1, ~~further for effectively performing a  $\frac{1}{2}$  rate convolutional coding to produce the code used for scrambling the HS-SCCH~~ wherein the HS-SCCH comprises a first part and a second part and wherein the code is used by the user equipment for descrambling only the first part of the HS-SCCH.

3. (Currently Amended) ~~[[A]]~~ The user equipment ~~comprising:~~  
~~an input configured to accept a 16-bit user identification; and~~  
~~a device for processing the 16-bit user identification code with eight appended zero bits effectively using a  $\frac{1}{2}$  rate convolutional encoding to produce a 48-bit code for use in descrambling a high speed shared control channel (HS-SCCH) of claim 2, wherein the UE ID has a length of 16 bits.~~

4. (Currently Amended) The user equipment of claim 3, wherein the ~~device further effectively performs rate matching to puncture eight bits after the production of the 48 bit code~~ circuitry configured to process the UE ID is further configured to process the UE ID and eight zero bits appended to the UE ID to produce the code used by the user equipment for descrambling the first part of the HS-SCCH.

5. (Currently Amended) ~~[[A]] The user equipment comprising of claim 4, wherein when the circuitry configured to process the UE ID processes the UE ID and the eight zero bits appended to the UE ID, the circuitry configured to process the UE ID produces a 48 bit code and wherein the user equipment further comprises:~~

~~an input configured to accept a 16 bit user identification; and  
means for processing the 16 bit user identification code with eight appended zero bits effectively using a 1/2 rate convolutional encoding to produce a 48 bit code for use in descrambling a high speed shared control channel (HS-SCCH) circuitry configured to puncture 8 bits of the 48 bit code to produce the code used by the user equipment for descrambling the first part of the HS-SCCH.~~

6. (Currently Amended) The user equipment of claim 5 ~~further comprising means for puncturing eight bits after the production of the 48 bit code~~ 2, wherein the first part of the HS-SCCH includes channelization and modulation information associated with the HS-PDSCH.

7. (Currently Amended) ~~A base station comprising:~~  
~~an input configured to accept a 16 bit user identification; and  
a device for processing the 16 bit user identification code with eight appended zero bits by effectively performing a 1/2 rate convolutional encoding to produce a 48 bit code for use in scrambling a high speed shared control channel (HS-SCCH) for a user equipment associated~~

~~with the 16 bit user identification~~ The user equipment of claim 1, wherein the user equipment supports multimedia services.

8. (Cancelled)

9. (Cancelled)

10. (Cancelled)

11. (New) A user equipment for use in a code division multiple access communication system, the user equipment being configured to monitor a plurality of high speed shared control channels (HS-SCCHs), at least one of the plurality of HS-SCCHs being scrambled at a base station associated with the communication system by a scrambling code and the scrambling code being produced by  $\frac{1}{2}$  rate convolutionally encoding a user equipment identification (UE ID) associated with the user equipment, and comprising circuitry configured to descramble the HS-SCCH scrambled by the scrambling code, wherein

the user equipment is further configured to receive a wireless signal from the base station, the wireless signal providing the user equipment with payload data carried on a high speed physical downlink shared channel (HS-PDSCH), the HS-PDSCH being associated with the HS-SCCH.

12. (New) The user equipment of claim 11, wherein the user equipment is configured to monitor up to four HS-SCCHs.

13. (New) The user equipment of claim 11, wherein the at least one of the plurality of HS-SCCHs comprises a first part and a second part and wherein only the first part of the at least one of the plurality of HS-SCCHs has been scrambled by the scrambling code.

14. (New) The user equipment of claim 13, wherein the first part of the at least one of the plurality of HS-SCCHs includes channelization and modulation information associated with the HS-PDSCH.

15. (New) The user equipment of claim 11, wherein the UE ID has a length of 16 bits.

16. (New) The user equipment of claim 13, wherein the circuitry configured to descramble the HS-SCCH scrambled by the scrambling code comprises:

a  $\frac{1}{2}$  rate convolutional encoder configured to process the UE ID and eight zero bits appended to the UE ID to produce a 48 bit code;

circuitry configured to puncture 8 bits of the 48 bit code; and

circuitry configured to mix the first part of the at least one of the plurality of HS-SCCHs with the punctured 48 bit code.

17. (New) The user equipment of claim 16, wherein the circuitry configured to mix the first part of the at least one of the plurality of HS-SCCHs with the punctured 48 bit code comprises an exclusive-OR gate.

18. (New) The user equipment of claim 11, wherein the user equipment supports multimedia services.